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L1: Entry 1 of 6

File: USPT

Oct 1, 2002

DOCUMENT-IDENTIFIER: US 6458511 B1

TITLE: Thermally imageable positive-working lithographic printing plate precursor and method for imaging

Detailed Description Text (4):

After filtration of the solution, it was applied to an electrochemically grained and anodized aluminum foil, which had been aftertreated with polyvinyl phosphoric acid, by means of common procedures, and the layer was dried for 4 min at 90.degree. C. The dry weight of the radiation-sensitive layer was about 1 g/m.sup.2.

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☐ 2. Document ID: US 6436601 B1

L1: Entry 2 of 6

File: USPT

Aug 20, 2002

DOCUMENT-IDENTIFIER: US 6436601 B1

TITLE: Thermally sensitive coating compositions containing mixed diazo novolaks useful for lithographic elements

Detailed Description Text (3):

A coating solution was prepared by dissolving 14.12 gr. of capped (esterified) novolak PDS-5 (a product produced and sold by Diversitec Corp., Fort Collins, Colo.) which has 5 mole percent of the novolak esterified with 2-diazo-1-naphthol-5-sulfonyl chloride, 0.34 gr of cellulose acetate butyrate (CAB 321-0.1 sold by Eastman Chemicals), 0.46 gr. of laser dye 830AT (sold by ADS, Montreal, Canada), and 0.08 gr of Neptune Blue were mixed with 129.36 gr of 1-methoxy-2-propanol and 55.60 gr of methyl ethyl ketone. An aluminum substrate that had been degreased, mechanically grained, anodized and made hydrophilic with a treatment of polyvinyl phosphoric acid, as is well known to one skilled in the art, was coated with the above composition. The dry coating weight was 2.3 g/m.sup.2. When properly dried, the plate was placed in a Creo-Scitex Trendsetter imagesetter. Imaging was done in the "write-the-background" mode using 175 mJ/cm.sup.2 of energy at 830 nm. The plate was developed through a processing machine, which was charged with conventional positive developer. The developed plate was observed to have an image that had borderline acceptability. Based upon a resolution target, the microlines were 15/20 and the halftone dot resolution was 10-96. The developer appeared to have attacked the highlight areas of the image. Under accelerated wear press conditions the plate produced 3,000 impressions before it was considered to have degraded significantly from the image quality at start-up. In general the image integrity was too weak.

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☐ 3. Document ID: US 4618562 A

L1: Entry 3 of 6

File: USPT

Oct 21, 1986

DOCUMENT-IDENTIFIER: US 4618562 A

TITLE: Aqueous developable lithographic printing plates containing an admixture of diazonium salts and polymers and composition therefor

## CLAIMS:

13. A lithographic printing plate which comprises an aluminum containing substrate, at least one surface of which has been grained, anodized and treated with a polyvinyl phosphoric acid containing hydrophilizing composition; and the composition of claim 7 coated onto said treated surface.

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☐ 4. Document ID: US 4539285 A

L1: Entry 4 of 6

File: USPT

Sep 3, 1985

DOCUMENT-IDENTIFIER: US 4539285 A

TITLE: Photosensitive negative diazo composition with two acrylic polymers for photolithography

## CLAIMS:

17. A lithographic printing plate which comprises an aluminum containing substrate, at least one surface of which has been grained, anodized and treated with a polyvinyl phosphoric acid containing hydrophilizing composition; and the composition of claim 11 coated ont said treated surface.

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☐ 5. Document ID: US 4511640 A

L1: Entry 5 of 6

File: USPT

Apr 16, 1985

DOCUMENT-IDENTIFIER: US 4511640 A

TITLE: Aqueous developable diazo lithographic printing plates with admixture of polyvinyl acetate and styrene maleic acid ester copolymer

## CLAIMS:

17. A lithographic printing plate which comprises an aluminum containing substrate, at least one surface of which has been grained, anodized and treated with a

polyvinyl phosphoric acid containing hydrophilizing composition; and the composition of claim 11 coated onto said treated surface.

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☐ 6. Document ID: US 4311782 A

L1: Entry 6 of 6

File: USPT

Jan 19, 1982

DOCUMENT-IDENTIFIER: US 4311782 A

TITLE: Radiation-sensitive mixture and process for the production of relief images

Detailed Description Text (36):

An aluminum plate of electrolytically roughened and anodized aluminum, pretreated with polyvinyl phosphoric acid, is provided with a 1.8  $\mu\text{m}$  thick layer of 4.7 parts by weight of novolak according to Example 1, 1.4 parts by weight of Compound No. 3a, 0.23 part by weight of acid donor according to Example 7 and 0.01 part by weight of Crystal Violet base. This layer is irradiated imagewise over all the spectral lines with an argon laser of 16 W light power, the laser beam being focussed by means of a lens onto a spot of 20  $\mu\text{m}$  diameter. The sensitivity of the individual combinations is determined by varying the writing speeds. The exposed layer parts are dissolved out within 60 seconds upon treatment with the developer of Example 1. The laser track can be made visible more clearly by inking up of the unirradiated areas with greasy ink. The maximum writing speed is 100 m/second.

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